

ABSTRACT OF THE DISCLOSURE

Methods of forming base plates for field emission display (FED) devices, methods of forming field emission display (FED) devices, and resultant FED base plate and device constructions are described. In one embodiment, a substrate is provided and is configurable into a base plate for a field emission display. A plurality of discrete, segmented regions of field emitter tips are formed by at least removing portions of the substrate. The regions are electrically isolated into separately-addressable regions. In another embodiment, a plurality of field emitters are formed from material of the substrate and arranged into more than one demarcated, independently-addressable region of emitters. Address circuitry is provided and is operably coupled with the field emitters and configured to independently address individual regions of the emitters. In yet another embodiment, a monolithic addressable matrix of rows and columns of field emitters is provided and has a perimetral edge defining length and width dimensions of the matrix. The matrix is partitioned into a plurality of discretely-addressable sub-matrices of field emitters. Row and column address lines are provided and are operably coupled with the matrix and collectively configured to address the field emitters. At least one of the row or column address lines has a length within the matrix which is sufficient to address less than all of the field emitters which lie in the direction along which the address line extends within the matrix.